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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/033,746	12/19/2001	Yumman Chan	CA920010082US1	8990
46156	7590	08/31/2006	EXAMINER	
MIN, HSIEH & HACK LLP USPTO CUSTOMER NO. WITH IBM/SVL 8270 GREENSBORO DRIVE, SUITE 630 MCLEAN, VA 22102			WOO, ISAAC M	
			ART UNIT	PAPER NUMBER
			2166	

DATE MAILED: 08/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/033,746	Applicant(s) CHAN ET AL.	
	Examiner Isaac M. Woo	Art Unit 2166	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 June 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3, 5, 18, 22-25, 27, 40 and 44-49 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5, 18, 22-25, 27, 40 and 44-49 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 28, 2006 has been entered.

2. Claims 1, 23 and 45 are amended. Claims 4, 6-17, 19-21, 26, 28-39, 41-43 and 50-63 are canceled. Claims 1-3, 5, 18, 22-25, 27, 40 and 44-49 are pending.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1, 23 and 45 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1, 23 and 45 recite the phrase, "wherein the development environment is separated from the production environment", which is not clearly understood. Because claimed invention is computer data

Art Unit: 2166

management system to manipulate content data by computer program function. The *production environment and development environment* can be interpreted as computer program functions, but are not clearly understood.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-3, 5, 18, 22-25, 27, 40 and 44-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tucker et al (U.S. Pub. No. 2004/0049598, hereinafter, "Tucker") in view of Peck et al (U.S. Pub. No. 2002/0188936, hereinafter, "Peck").

With respect to claim 1, Tucker discloses, replicating (downloading from internet content server, 406, fig. 4, page 3, section [0035]) the production data (content) store from the production environment (406, internet content server) to produce a core data store (original unedited page), see (fig. 4, page 3, section [0037]) in a development environment, contents (original unedited page, page 3, section [0037] from 406, internet content server, fig. 4) are requested by internet user and stored on 240, fig. 2, internet user system), wherein the development environment is separated from the

Art Unit: 2166

production environment (production data from 406, fig.4 to core data, unedited data, replicating); producing a shadow data (image file, page 4, sections [0037]-[0038], editor 422, fig. 4, checks the page's (core data) HTML image file and gathers images) store of a portion of the core data store (original unedited page) (fig. 4, page 4, section [0037]-[0038], image files are portion of original unedited page) within development environment; modifying the shadow data store (image file, page 4, section [0038]) to produce a modified shadow data store, see (page 4, section [0038], image file is compressed by editor 422, fig. 4); and generating a user view (displaying), for presentation to a user, from the modified shadow data store and the core data (page 5, section [0047] displaying original unedited contents and modified, compressed, content in a user browser), to produce a temporary image a user view defining content available for propagation from the development environment to the production environment (cached data is temporary data and the image is presented to a user). Tucker does not explicitly disclose, "generating a user view, by combining content of the modified shadow data store with content of the core data store", which is displaying combined image data to the user. However, Peck discloses, "re-creation data including those portions of an edited Web-based document including first and second editing tags along with contextual data sufficient to locate the saved portions within the original Web-based document so that the edited Web-based document may be re-created by combining the re-creation data and the original Web-based document" (page 8, claim 3). This teaches that the combined data is displayed with web document to the user. Therefore, it would have been obvious to a person having ordinary skill in the art at the

Art Unit: 2166

time of the invention was made to modify by incorporating generating a user view, by combining content of the modified shadow data store with content of the core data store with the system of Peck. Thus, one having ordinary skill in the art at the time the invention was made would have been motivated to use such a combination because that would provide combined image data to the user for user-friendly computer displaying system.

With respect to claim 2, Tucker discloses, applying the modified shadow data store to said core data store to create a modified core data store, see (page 4, section [0038]).

With respect to claim 3, Tucker discloses, propagating said modified core data store to said production data store to produce a modified production data store, see (page 4, section [0038]).

With respect to claim 5, this limitation is discussed before in claim 1. Thus, this is rejected as same reason above in claim 1.

With respect to claim 18, Tucker discloses, document, a software program, a software module, graphic image, a video composition, an audio composition and a web page, see (page 3, section [0037], page 4, section [0038]).

With respect to claim 22, Tucker discloses, insert operations; delete operations, and wherein update operations are combinations of insert and delete operations, see (page 3, section [0037]).

With respect to claim 23, Tucker discloses, replicating (downloading from internet content server, 406, fig. 4, page 3, section [0035]) the production data (content) store from the production environment (406, internet content server) to produce a core data store (original unedited page), see (fig. 4, page 3, section [0037]) in a development environment, contents (original unedited page, page 3, section [0037] from 406, internet content server, fig. 4) are requested by internet user and stored on 240, fig. 2, internet user system), wherein the development environment is separated from the production environment (production data from 406, fig.4 to core data, unedited data, replicating); producing a shadow data (image file, page 4, sections [0037]-[0038], editor 422, fig. 4, checks the page's (core data) HTML image file and gathers images) store of a portion of the core data store (original unedited page) (fig. 4, page 4, section [0037]-[0038], image files are portion of original unedited page) within development environment; modifying the shadow data store (image file, page 4, section [0038]) to produce a modified shadow data store, see (page 4, section [0038], image file is compressed by editor 422, fig. 4); and generating a user view (displaying), for presentation to a user, from the modified shadow data store and the core data (page 5, section [0047] displaying original unedited contents and modified, compressed, content in a user browser), to produce a temporary image a user view defining content available for propagation from the

Art Unit: 2166

development environment to the production environment (cached data is temporary data and the image is presented to a user). Tucker does not explicitly disclose, "generating a user view, by combining content of the modified shadow data store with content of the core data store", which is displaying combined image data to the user. However, Peck discloses, "re-creation data including those portions of an edited Web-based document including first and second editing tags along with contextual data sufficient to locate the saved portions within the original Web-based document so that the edited Web-based document may be re-created by combining the re-creation data and the original Web-based document" (page 8, claim 3). This teaches that the combined data is displayed with web document to the user. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify by incorporating generating a user view, by combining content of the modified shadow data store with content of the core data store with the system of Peck. Thus, one having ordinary skill in the art at the time the invention was made would have been motivated to use such a combination because that would provide combined image data to the user for user-friendly computer displaying system.

With respect to claim 24, Tucker discloses, applying the modified shadow data store to said core data store to create a modified core data store, see (page 4, section [0038]).

With respect to claim 25, Tucker discloses, propagating said modified core data store to said production data store to produce a modified production data store, see (page 4, section [0038]).

With respect to claim 27, this limitation is discussed before in claim 1 with Mukai. Thus, this is rejected as same reason above in claim 1.

With respect to claim 40, Tucker discloses, document, a software program, a software module, graphic image, a video composition, an audio composition and a web page, see (page 3, section [0037], page 4, section [0038]).

With respect to claim 44, Tucker discloses, insert operations; delete operations, and wherein update operations are combinations of insert and delete operations, see (page 3, section [0037]).

With respect to claim 23, Tucker discloses, replicating (downloading from internet content server, 406, fig. 4, page 3, section [0035]) the production data (content) store from the production environment (406, internet content server) to produce a core data store (original unedited page), see (fig. 4, page 3, section [0037]) in a development environment, contents (original unedited page, page 3, section [0037] from 406, internet content server, fig. 4) are requested by internet user and stored on 240, fig. 2, internet user system), wherein the development environment is separated from the production

Art Unit: 2166

environment (production data from 406, fig.4 to core data, unedited data, replicating); producing a shadow data (image file, page 4, sections [0037]-[0038], editor 422, fig. 4, checks the page's (core data) HTML image file and gathers images) store of a portion of the core data store (original unedited page) (fig. 4, page 4, section [0037]-[0038], image files are portion of original unedited page) within development environment; modifying the shadow data store (image file, page 4, section [0038]) to produce a modified shadow data store, see (page 4, section [0038], image file is compressed by editor 422, fig. 4); and generating a user view (displaying), for presentation to a user, from the modified shadow data store and the core data (page 5, section [0047] displaying original unedited contents and modified, compressed, content in a user browser), to produce a temporary image a user view defining content available for propagation from the development environment to the production environment (cached data is temporary data and the image is presented to a user). Tucker does not explicitly disclose, "generating a user view, by combining content of the modified shadow data store with content of the core data store", which is displaying combined image data to the user. However, Peck discloses, "re-creation data including those portions of an edited Web-based document including first and second editing tags along with contextual data sufficient to locate the saved portions within the original Web-based document so that the edited Web-based document may be re-created by combining the re-creation data and the original Web-based document" (page 8, claim 3). This teaches that the combined data is displayed with web document to the user. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was

Art Unit: 2166

made to modify by incorporating generating a user view, by combining content of the modified shadow data store with content of the core data store with the system of Peck. Thus, one having ordinary skill in the art at the time the invention was made would have been motivated to use such a combination because that would provide combined image data to the user for user-friendly computer displaying system.

With respect to claim 46, Tucker discloses, data storage medium capable for recording data, see (page 3, section [0041]).

With respect to claim 47, Tucker discloses, magnetic, optical, biological and atomic data storage medium, see (page 3, section [0041]).

With respect to claim 48, Tucker discloses, modulated signal medium, see (page 3, section [0041]).

With respect to claim 49, Tucker discloses, a group of networks comprising the Internet and Extranet, see (page 1, section [0002]).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isaac M. Woo whose telephone number is (571) 272-4043. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain T. Alam can be reached on (571) 272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Isaac Woo
August 30, 2006